

ABSTRACT

A system of the present invention includes a server that distributes files to a plurality of receivers within a wireless communication system. The server and the plurality of receivers are components of the wireless communication system network infrastructure. In one embodiment, the server is a base station manager and the receivers are base stations. In operation, the sender establishes a multicast session with the plurality of receivers by interacting with the plurality of receivers. The sender subdivides the file(s) into a plurality of data packets and multicasts the plurality of data packets to the plurality of receivers. At least some of the plurality of receivers fails to receive some of the plurality of data packets. Receivers failing to receive some or all of the plurality of data packets error report to the sender of the file. The sender then retransmits a plurality of unreceived data packets of the plurality of data packets to the error-reporting receivers. According to one embodiment of the present invention, the base stations operate according to a code division multiple access wireless operating standard and the base stations load the file(s) onto a plurality of processing cards contained within the base stations. In such case, the base station may require a software update and the file(s) are the software update.